

Changes Over Time ▪ *Guided Reading and Study*

Evidence of Evolution *(continued)*

Inferring Species Relationships

4. Is the following sentence true or false? The more closely related species are, the more similar their DNA sequences. _____

5. What have scientists learned about the elephant shrew based on DNA evidence?

6. Circle the letter of each sentence that is true about evolutionary relationships of organisms.

a. DNA comparisons show that dogs are more similar to coyotes than to wolves.

b. Scientists can compare protein structure to determine how closely two species are related.

c. A branching tree shows how scientists think different groups of organisms are related.

d. DNA evidence shows that giant pandas are more closely related to raccoons than to bears.

7. Is the following sentence true or false? When a group of individuals remains isolated from the rest of its species long enough to evolve different traits, a new species can form. _____

8. What are three ways that isolation can occur?
